Name : _____ Score : _____

Midpoint Formula - Shapes

Sheet 1

1) Find the point of intersection of diagonals of the parallelogram whose vertices are (–3, 2), (–4, 4), (1, 4) and (2, 2).

_____

2) Find the endpoints of the median of triangle whose vertices are (3, 1), (7, 1) and (3, 7).

_____

3) Find the point of intersection of diagonals of the rhombus whose vertices are (–10, –2), (–8, –5), (–6, –2) and (–8, 1).

_____

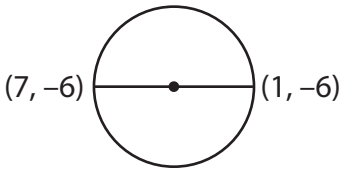
4) The coordinates of the diameter of a semicircle are (0, 1) and (6, 1). Find the center of the semicircle.

_____

5) Find the point of intersection of diagonals of the square whose vertices are (1, –8), (1, –10), (3, –10) and (3, –8).

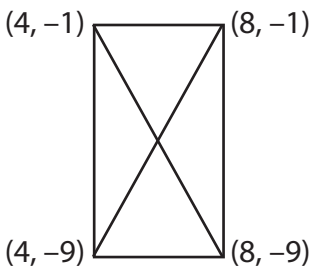
_____

6) Find the center of a circle.



_____

7) Find the point of intersection of the diagonals.



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Name : _____ Score : _____

Answer key

Midpoint Formula - Shapes

Sheet 1

1) Find the point of intersection of diagonals of the parallelogram whose vertices are (–3, 2), (–4, 4), (1, 4) and (2, 2).

The point of intersection is (–1, 3).

2) Find the endpoints of the median of triangle whose vertices are (3, 1), (7, 1) and (3, 7).

The endpoints of the median are (5, 1), (5, 4) and (3, 4).

3) Find the point of intersection of diagonals of the rhombus whose vertices are (–10, –2), (–8, –5), (–6, –2) and (–8, 1).

The point of intersection is (–8, –2).

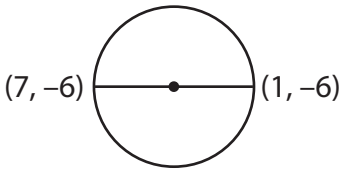
4) The coordinates of the diameter of a semicircle are (0, 1) and (6, 1). Find the center of the semicircle.

The center of the semicircle is (3, 1).

5) Find the point of intersection of diagonals of the square whose vertices are (1, –8), (1, –10), (3, –10) and (3, –8).

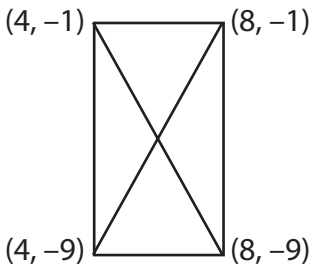
The point of intersection is (2, –9).

6) Find the center of a circle.



(4, –6)

7) Find the point of intersection of the diagonals.



(6, –5)